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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/014,301	12/10/2001	Cong Q. Khieu	004-6390	3139
42714	7590 05/31/2006 EXAMINER			
	D'BRIEN GRAHAM I H CAPITAL OF TEXA	CORRIELUS, JEAN B		
SUITE 350			ART UNIT	PAPER NUMBER
AUSTIN, TX	78731-1191		2611	

DATE MAILED: 05/31/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)	7			
		10/014,301	KHIEU ET AL.				
Office Action S	Summary	Examiner	Art Unit				
		Jean В. Corrielus	2611				
The MAILING DATE of Period for Reply	of this communication app	pears on the cover shee	t with the correspondence addr	ress			
WHICHEVER IS LONGER, - Extensions of time may be available after SIX (6) MONTHS from the mail	FROM THE MAILING D under the provisions of 37 CFR 1.1 ing date of this communication. ove, the maximum statutory period nded period for reply will, by statute r than three months after the mailin	ATE OF THIS COMML 136(a). In no event, however, ma will apply and will expire SIX (6) e, cause the application to becom	y a reply be timely filed MONTHS from the mailing date of this com e ABANDONED (35 U.S.C. § 133).				
Status							
1) Responsive to comm	unication(s) filed on 20 A	pril 2006.					
2a) ☐ This action is FINAL.	This action is FINAL . 2b)⊠ This action is non-final.						
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance	with the practice under E	Ex parte Quayle, 1935	C.D. 11, 453 O.G. 213.				
Disposition of Claims							
5) ☐ Claim(s) is/are 6) ☑ Claim(s) <u>1-31</u> is/are ro 7) ☐ Claim(s) is/are	n(s) is/are withdra allowed. ejected.	wn from consideration.					
Application Papers							
9)☐ The specification is ob	jected to by the Examine	er.					
10) ☐ The drawing(s) filed or	n is/are: a)□ acc	epted or b) objected	to by the Examiner.				
			eyance. See 37 CFR 1.85(a).				
		•	ring(s) is objected to. See 37 CFR hed Office Action or form PTO	• •			
Priority under 35 U.S.C. § 119							
2. Certified copies3. Copies of the capplication from) None of: s of the priority document s of the priority document	ts have been received. Its have been received in the documents have been (PCT Rule 17.2(a)).	n Application No een received in this National St	tage			
Attachment(s) 1) Notice of References Cited (PTO	⊩892)	4) ☐ Intervi	ew Summary (PTO-413)				
2) D Notice of Draftsperson's Patent D	Prawing Review (PTO-948)	Paper	No(s)/Mail Date				
Information Disclosure Statemen Paper No(s)/Mail Date	i(s) (PTO-1449 or PTO/SB/08)	5) Notice 6) Other:	of Informal Patent Application (PTO-1	52)			

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DETAILED ACTION

Specification

1. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

Response to Arguments

2. Applicant's arguments with respect to claims 1-31 have been considered with the following effects: after further consideration, a new ground of rejection of claims 1, 2, 4, 5, 12-16, 22-23, 25 and 26 in view of Dow is set forth below because the storage device and the delay element are believed to be inherently provided by Dow see rejection below. Any other point of argument is moot in view of such new ground (s) of rejection.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 1, 2, 4, 5, 12-16, 22-23, 25 and 26 are rejected under 35 U.S.C. 102(b) as being anticipated by Dow US patent No. 5,306,967.

As per claim 1, Dow discloses a method and apparatus (figs. 1 and 2) comprising: transmitting (means for transmitting) a first digital signal along the first signal path see elements 42 and 80 and col. 4, lines 10-17; transmitting a second signal along a second path see elements 41 and 80 and col. 4, lines 10-17 wherein the

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second digital signal has a value "0" opposite a value of the first digital signal "1" see fig. 1, elements 41 and 42 towards the left side of the figure; storing (means for storing) the second signal in a buffer along the second signal path note that transmission units 80 include signals to be transmitted transmit signals to circuit 85, because the signal is transmitted one bit at the time see fig. 1 for instance, circuit 80 has to include a buffer or some sort of storage device to temporary store the data prior to transmission. Hence a memory device in inherent in Dow.; inverting (means for inverting the value of the first digital signal along the first path see 52 and 100 and col. 4, lines 26-31; and re-inverting (means for re-inverting) the first digital signal along the first signal path at a final destination of the first signal path see elements 52 and 100.

As per claim 2, note that circuit elements 100 and 101 includes in inherent time delay to process to receive and invert the signal hence "a time delay circuit is inherently taught by Dow.

As per claim 4, note at col. 2, lines 44-45 that Dow refers to the inverters a repeaters hence 100 includes a first repeater and 101 includes a second repeater.

As per claim 5, the first repeater (100 "center") repeats the signal after the first signal is inverted see 100 "first" and the second repeater (101 "first") repeats the second signal after the second signal is stored see device 80.

As per claim 12, see claim 1,

As per claim 13, see claim 2.

As per claim 14, the inverter 100 is placed opposite (i. e. placed in second signal path) the buffer.

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As per claim 15, see claim 4.

As per claim 16, see claim 5.

As per claim 22 see claim 1.

As per claim 23, see claim 2.

As per claim 25, see claim 4.

As per claim 26, see claim 5.

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 3, 6-11, 17-21, 24 and 27-31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dow in view of Lin.

As per claim 3, as applied to claim 1 above, Dow discloses every feature of the claimed invention but does not explicitly teach the further limitation of inverting the first signal while storing the second signal. However, as evidence by Lin it is well known in the art to invert a first signal while storing a second signal see fig. 1, elements B12 and B22, fig. 3 element S12 and col. 3 lines 40-52. Given that fact, it would have been obvious to one skill in the art to modify Dow inverting the first signal while storing the second signal as disclosed by Lin in order to ensure that signal values in path 1 so as to prevent and minimize signal interference between the two signal paths.

As per claim 6, Dow discloses every feature of the claimed invention but does

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not explicitly teach the further limitation of "the two signals have the same value for at least one half the first signal path". At col. 4, lines 11-12, Lin teaches the further limitation of "the two signals have the same value for at least one half the first signal path". Given that, it would have been obvious to one skill in the art to modify Dow in such a way as to ensure that the two signals have the same value for at least one half the first signal path" the motivation to do so would have been the same as provided above with respect to claim 3.

As per claims 7-11 and 17-21 and 27-31, see claim 6.

As per claim 24, see claim 3.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jean B. Corrielus whose telephone number is 571-272-3020. The examiner can normally be reached on Maxi-Flex.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jay Patel can be reached on 571-272-2988. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Jean B Corrielus Primary Examiner Art Unit 2611